

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Neason
Title: ELECTROPHYSIOLOGY SYSTEM AND METHOD
Serial No: To be Determined
Art Unit: To be Determined
Filing Date: April 4, 2004
Examiner: To be Determined
Date: April 4, 2004

INFORMATION DISCLOSURE STATEMENT

ATTN: Mail Stop PATENT APPLICATION
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98.

- ☒ 1. A list of documents on Form PTO-1449 or Substitute of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.
- This paper is submitted in accordance with:
- ☒ 2. 37 CFR 1.97(b): [within three months of national, non-CPA filing, prior to first Office Action, on the merits, or prior to first office action after filing an RCE]
- ☐ 3. 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- ☐ a. The required Certification made in item 5 below; or
- ☐ b. The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.

CERTIFICATE OF MAILING

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 as Express Mail No. EV 431601301 US on April 2, 2004 and is addressed to Mail Stop PATENT APPLICATION, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By: Carolyn Simpson Date: April 2, 2004
Name: Carolyn Simpson

4. 37 CFR 1.97(d): [on or before issue fee payment]; and

- a) The required Certification is stated in item 5 below and
- b) The \$180.00 fee specified in 37 C.F.R. 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.

5. Certification

- [] a. Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- [] b. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.

6. Payment of all applicable fees:

- ☐ Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. _____.
- ☐ Enclosed is a check in the amount of \$_____ in payment of all applicable fees associated with the submittal of this Information Disclosure Statement

This document is submitted in duplicate.

Respectfully submitted,

Date April 2, 2004

By Scott C. Nielson

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**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

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Sheet 1 of 9

Complete if Known

Application Number	To be Determined
Filing Date	4/2/04
First Named Inventor	Neason
Group Art Unit	To be Determined
Examiner Name	To be Determined
Attorney Docket Number	066243-0239 (141223)

U.S. PATENT DOCUMENTS.

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A-1	6,569,160		Goldin et al.	05-27-2003	
	A-2	6,565,511		Panescu et al.	05-20-2003	
	A-3	6,558,333		Gilboa et al.	05-06-2003	
	A-4	6,546,270		Golden et al.	04-08-2003	
	A-5	6,528,991		Ashe	03-04-2003	
	A-6	6,522,913		Swanson et al.	02-18-2003	
	A-7	6,516,807		Panescu et al.	02-11-2003	
	A-8	6,498,944		Ben-Haim et al.	12-24-2002	
	A-9	6,498,477		Govari et al.	12-24-2002	
	A-10	6,496,712		Dahl et al.	12-17-2002	
	A-11	6,490,475		Seeley et al.	12-03-2002	
	A-12	6,490,474		Willis et al.	12-03-2002	
	A-13	6,490,468		Panescu et al.	12-03-2002	
	A-14	6,489,961		Baxter, III et al.	12-03-2002	
	A-15	6,487,441		Swanson et al.	11-26-2002	
	A-16	6,484,118		Govari	11-19-2002	
	A-17	6,484,049		Seeley et al.	11-19-2002	
	A-18	6,458,123		Brucker et al.	10-01-2002	
	A-19	6,456,867		Reisfeld	09-24-2002	
	A-20	6,453,190		Acker et al.	09-17-2002	
	A-21	6,447,504		Ben-Haim et al.	09-10-2002	
	A-22	6,445,943		Ferre et al.	09-03-2002	
	A-23	6,427,314		Acker	08-06-2002	
	A-24	6,400,981		Govari	06-04-2002	
	A-25	6,385,476		Osadchy et al.	05-07-2002	
	A-26	6,380,732		Gilboa	04-30-2002	
	A-27	6,379,302		Kessman et al.	04-30-2002	
	A-28	6,373,240		Govari	04-16-2002	
	A-29	6,370,411		Osadchy et al	04-09-2002	
	A-30	6,368,285		Osadchy et al	04-09-2002	
	A-31	6,366,799		Acker	04-02-2002	
	A-32	6,341,231		Ferre et al.	01-22-2002	
	A-33	6,335,617		Osadchy et al	01-01-2002	
	A-34	6,332,089		Acker et al.	12-18-2001	
	A-35	6,314,310		Ben-Haim et al.	11-06-2001	
	A-36	6,301,496		Reisfeld	10-09-2001	
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	A-38	6,266,551		Osadchy et al	07-24-2001	
	A-39	6,256,540		Panescu et al.	07-03-2001	
	A-40	6,248,075		McGee et al.	06-19-2001	
	A-41	6,246,898		Vesely et al.	06-12-2001	
	A-42	6,246,231		Ashe	06-12-2001	

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		Number	Kind Code ² (if known)			
	A-43	6,240,307		Beatty et al.	05-29-2001	
	A-44	6,226,543		Gilboa et al.	05-01-2001	
	A-45	6,226,542		Reisfeld	05-01-2001	
	A-46	6,223,066		Govari	04-24-2001	
	A-47	6,216,027		Willis et al.	04-10-2001	
	A-48	6,211,666		Acker	04-03-2001	
	A-49	6,198,963		Haim et al.	03-06-2001	
	A-50	6,188,924		Swanson et al.	02-13-2001	
	A-51	6,188,355		Gilboa	02-13-2001	
	A-52	6,183,088		LoRe et al.	02-06-2001	
	A-53	6,175,756		Ferre et al.	01-16-2001	
	A-54	6,161,032		Acker	12-12-2000	
	A-55	6,147,480		Osadchy et al	11-14-2000	
	A-56	6,066,094		Ben-Haim	05-23-2000	
	A-57	6,019,725		Vesely et al.	02-01-2000	
	A-58	6,016,439		Acker	01-18-2000	
	A-59	5,983,126		Wittkamp	11-09-1999	
	A-60	5,967,980		Ferre et al.	10-19-1999	
	A-61	5,953,683		Hansen et al.	09-14-1999	
	A-62	5,928,248		Acker	07-27-1999	
	A-63	5,916,163		Panescu et al.	06-29-1999	
	A-64	5,873,822		Ferre et al.	02-23-1999	
	A-65	5,868,673		Vesely	02-09-1999	
	A-66	5,840,025		Ben-Haim	11-24-1998	
	A-67	5,833,608		Acker	11-10-1998	
	A-68	5,830,144		Vesely	11-03-1998	
	A-69	5,829,444		Ferre et al.	11-03-1998	
	A-70	5,820,568		Willis	10-13-1998	
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	A-72	5,813,991		Willis et al.	09-29-1998	
	A-73	5,803,089		Ferre et al.	09-08-1998	
	A-74	5,800,352		Ferre et al.	09-01-1998	
	A-75	5,797,849		Vesely et al.	08-25-1998	
	A-76	5,795,298		Vesely et al.	08-18-1998	
	A-77	5,779,638		Vesely et al.	07-14-1998	
	A-78	5,752,513		Acker et al.	05-19-1998	
	A-79	5,744,953		Hansen	04-28-1998	
	A-80	5,738,096		Ben-Haim	04-14-1998	
	A-81	5,729,129		Acker	03-17-1998	
	A-82	5,722,402		Swanson et al.	03-03-1998	
	A-83	5,718,241		Ben-Haim et al.	02-17-1998	
	A-84	5,718,241		Ben-Haim et al.	02-17-1998	

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				Application Number	To be Determined
				Filing Date	4/2/04
				First Named Inventor	Neason
				Group Art Unit	To be Determined
				Examiner Name	To be Determined
Sheet	3	of	9	Attorney Docket Number	066243-0239 (141223)

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		Number	Kind Code ² (if known)			
	A-85	5,713,946		Ben-Haim	02-03-1998	
	A-86	5,697,377		Wittkamp	12-16-1997	
	A-87	5,694,945		Ben-Haim	12-09-1997	
	A-88	5,676,673		Ferre et al.	10-14-1997	
	A-89	5,662,108		Budd et al.	09-02-1997	
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	A-91	5,568,809		Ben-Haim	10-29-1996	
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	A-95	5,515,853		Smith et al.	05-14-1996	
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	A-100	5,391,199		Ben-Haim	02-21-1995	
	A-101	5,311,866		Kagan et al.	05-17-1994	
	A-102	5,297,549		Beatty et al.	03-29-1994	
	A-103	4,945,305		Blood	07-31-1990	
	A-104	4,849,692		Blood	07-18-1989	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS			
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	A-105	Cardiac catheterization system, Cardiac Cath Lab Systems, RMC-3100, RMC-3200, printed from website www.nihonkohden.com on 12/18/2003, (2 pgs.).	
	A-106	DASH PRO, Variable-Acuity Monitoring, GE Medical Systems Information Technologies, 02-7446A, March 2002, (8 pgs.).	
	A-107	ASTROM, M. et al., Least Squares VCG Loop Alignment, date unknown, (4 Pgs.).	

Examiner Signature	Date Considered	
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Sheet	4	of	9

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	A-108	ASTROM M. et al., <i>Vectorcardiographic Loop Alignment and the Measurement of Morphologic Beat-to-Beat Variability in Noisy Signals</i> , IEEE Transactions on Biomedical Engineering, Vol. 47, No. 4, April 2000, pages 497-506, (10 pgs.).	
	A-109	ASTROM M., <i>Vectorcardiographic Loop Alignment in Ischemia Monitoring</i> , Licentiate in Engineering Thesis, April 2000, (75 pgs.).	
	A-110	GE Announces Alliance with Biosense Webster to Give Clinicians Access to Patients' Complete Heart Rhythm Data at a Single Workstation, GE Medical Systems – Company News-News Releases, dated May 15, 2003, (2 pgs.).	
	A-111	Invasive – CardioLink Networking – Boosts your productivity, GE Medical Systems, Europe, Middle East & Africa, printed from website www.gemedicalsystemseurope.com/euen/cardiology/invasive/electro_la... on 1/27/2004, (2 pgs.).	
	A-112	Navigation and Visualization, InstaTrak™ - Cranial Multi-application electromagnetic surgical navigation system for ENT, Cranial and Spine procedures, GE Medical Systems, printed from website www.gemedicalsystemseurope.com/euen/rad/nav/instatrak_cranial_ho on 1/27/2004, (2 pgs.).	
	A-113	Invasive, Increase Efficiency in the Cardiac Cath Lab, GE Medical Systems, printed from website www.gemedicalsystems.com/cardiology/invasive/cardiac_cath_lab/comb on 1/12/2004, (1 pg.).	
	A-114	Invasive – CardioLab – 5.1, Bringing added functionality to the world class CardioLab EP System, GE Medical Systems, printed from website www.gemedicalsystems.com/cardiology/invasive/electro_lab... on 1/12/2004, (2 pgs.).	
	A-115	Computed Tomography, Advanced Clinical Applications, GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/msctappl.html on 1/28/2004, (2 pgs.).	
	A-116	Computed Tomography, Advanced CT Applications – Navigator, GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/navigator.html on 1/28/2004, (1 pg.).	
	A-117	Computed Tomography, Advanced CT Applications – Direct3D, GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/direct3d.html on 1/28/2004, (1 pg.).	
	A-118	Computed Tomography, Advanced CT Applications – Volume Rendering, GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/vr.html on 1/28/2004, (2 pgs.).	

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	A-119	Computed Tomography, <i>Advanced CT Applications – Advantage Sim</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/sim_benefits.html on 1/28/2004, (1 pg.).	
	A-120	Computed Tomography, <i>Advanced CT Applications – Advantage Sim (Simulation Tools)</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/sim_sim.html on 1/28/2004, (1 pg.).	
	A-121	Computed Tomography, <i>Advanced CT Applications – Advantage Sim (Advanced CT Simulation)</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/sim.html on 1/28/2004, (2 pgs.).	
	A-122	Computed Tomography, <i>GE Medical Systems is proud to offer Mindways QCT PRO 3D Volumetric Spine & Hip BMD – B7501MW – Accurate & Reproducible</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/bmd/index.html on 1/28/2004, (1 pg.).	
	A-123	Computed Tomography, <i>Snapshot cardiac imaging provides the most flexible and widest range of clinical acquisition and reconstruction options available today. Snapshot enables cardiac imaging over a wide range of patients (from 40 to 110 bpm)</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/snapshot/index.html on 1/28/2004, (1 pg.).	
	A-124	Computed Tomography, <i>SmartScore – Coronary Artery Calcification Scoring</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/smart_score/index.html on 1/28/2004, (2 pgs.).	
	A-125	SmartScore, <i>Coronary Artery Calcification Scoring</i> , GE Medical Systems, copyright date: 2000, (6 pgs.).	
	A-126	Computed Tomography, <i>CardIQ Function – Cardiac Functional Analysis</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/cardi_q_func/index.html on 1/28/2004, (2 pgs.).	
	A-127	Computed Tomography, <i>CardIQ Analysis – CV Image Post-Processing & Analysis</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/cardi_q/index.html on 1/28/2004, (2 pgs.).	
	A-128	Computed Tomography, <i>Advanced Vessel Analysis</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/ct/applications/ava/ct_ava_home.html on 1/28/2004, (2 pgs.).	
	A-129	Advanced Vessel Analysis – <i>Image Analysis Software</i> , GE Medical Systems, copyright date: 2000, (4 pgs.).	

Examiner Signature		Date Considered	
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		Application Number	To be Determined
		Filing Date	4/2/04
		First Named Inventor	Neason
		Group Art Unit	To be Determined
		Examiner Name	To be Determined
		Attorney Docket Number	066243-0239 (141223)
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	A-130	B770OSS Advanced Vessel Analysis, -GE Medical Systems, date undetermined, (2 pgs.).	
	A-131	Advanced Vessel Analysis, Clinical Case Study, Application in Pre-stent Graft Evaluation and Post-stent Graft Imaging, GE Medical Systems, copyright date: 2000, (8 pgs.).	
	A-132	Advantage Workstation - Multi-Modality Software Applications:, GE Medical Systems, printed from website www.gemedicalsystems.com/rad/aw/aw_multisoft.html on 1/28/2004, (3 pgs.).	
	A-133	Advantage Workstation - CT Software Applications:, GE Medical Systems, printed from website www.gemedicalsystems.com/rad/aw/aw_ctsoft.html on 1/28/2004, (4 pgs.).	
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	A-143	Functional Imaging – <i>SPECT Triangulating Display</i> , GE Medical Systems, printed from website www.gemedicalsystems.com/rad/nm_pet/products/vision/spect1.html on 1/28/2004, (2 pgs.).	
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	A-153	<i>RPM Realtime Position Management™ System</i> , (Instructions for use) Electrophysiology, Boston Scientific, printed from website www.bostonscientific.com/common_templates/singleDetailList.jhtml?tas on 1/12/2004, (2 pgs.).	

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	A-154	<i>How to Get There From Here</i> , PruKa Cardiolab 7000, Advanced Electrophysiology Diagnostic System, GE Medical Systems, copyright date: 2000, (2 pgs.).	
	A-155	Jasbir Sra, Joy Thomas, <i>New Techniques for Mapping Cardiac Arrhythmias</i> , Indian Heart Journal, July-August 2001, printed from website www.indianheartjournal.org/JulyAugust2001/NewTechniquesfor Mapping/... on 1/19/2004, (30 pgs.).	
	A-156	<i>EP MedSystems Submits 510-K- Filing for Integration of Catheter Navigation Technology into EP-Workmate Platform</i> , West Berlin, N.J. – (BUSINESS WIRE), July 24, 2003, printed from website www.businesswire.com/webbox/bw.072403/232055085.htm on 1/19/2004, (1 pg.).	
	A-157	Anoop K. Gupta, Alok Maheshwari, Ranjan K. Thakur, Yash Y. Lokhandwala, <i>Catheter Ablation of Atrial Tachycardia Using a Real-Time Position Management Mapping System</i> , Indian Heart Journal, Jan.–Feb. 2003, printed from website www.indianheartjournal.org/Jan-Feb2003/Catheter%20Ablation%20of%20AtrialTachycardiaUsingaRealTimePositionManagementMappingSystem on 1/19/2004, (4 pgs.).	
	A-158	<i>Products / EPWorkMate® - The Completely Integrated EP WorkStation</i> , EPMedSystems, copyright date: 2001, printed from website www.epmedsystems.com/products/epwm/index.htm on 1/19/2004, (4 pgs.).	
	A-159	<i>INVASIVE - Cardiolmage Fluoroscopy Image Management System</i> , GE Medical Systems, printed from website www.gemedicalsystem.com/cardiology/invasive/electro_lab/cardioimag... on 1/26/2004, (1 pg.).	
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	A-164	<i>System Flexibility For Long-Term Protection of Your Technology Investment</i> , Heartlab, printed from website www.heartlab.com/benefits_flexibility.htm on 1/27/2004, (1 pg.).	
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	A-166	<i>St. Francis Medical Center</i> , Heartlab, printed from website www.heartlab.com/casestudies_3.htm on 1/27/2004, (4 pgs.).	

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	A-168	Actuality Systems – Photographs, Actuality Systems, copyright date: 2001, printed from website www.actuality-systems.com/photographs.php3 on 11/25/2003, (3 pgs.).	
	A-169	Welcome to SeeReal Technologies GmbH, SeeReal Technologies, copyright date: 2003, printed from website www.seereal.com/default.en.htm on 2/17/2004, (1 pg.).	
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	A-174	Siemens and X3D unveil the first Extreme 3D Display for medical application, Virtual Medical Worlds Monthly, dated Oct. 22, 2003, printed from website www.hoise.com/vmw/03/articles/vmw?LV-VM-11-03-27.html on 2/16/2004, (2 pgs.).	
	A-175	Siemens unveils the first Extreme 3D Display for medical application, Siemens AG, dated Oct. 22, 2003, printed from website http://siemens.com/index.jsp?sdc_p=d1047890po1105117fcls4mn1031561u&... on 2/16/2004, (2 pgs.).	
	A-176	Gregg Favalora and Cameron Lewis, Spatial 3D: The End of Flat-Screen Thinking, Actuality Systems, Inc., July, 2003, (9 pgs.).	
	A-177	CALYSTO™ for Cardiology – Overview, WITT Biomedical, printed from website http://www.wittbiomedical.com/products.dfm?secID=1 on 3/31/2004, (2 pgs.).	

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